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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,758	04/09/2004	David T. Marquardt	004.0050	1870
	7590 08/13/200 ISHER & LORENZ, P	EXAMINER		
7150 E. CAME	LBACK, STE. 325	MORGAN, EILEEN P		
SCOTTSDALE	c, AZ 83231		ART UNIT	PAPER NUMBER
			3723	
			MAIL DATE	DELIVERY MODE
			08/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Applica	tion No.	Applicant(s)						
		10/821,	758	MARQUARDT ET	ΓAL.					
Office Action Summary			er	Art Unit						
		Eileen F	. Morgan	3723	Ì					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR THE NEW PROOF OF THE NEW PRO	MAILING DATE OF 5 s of 37 CFR 1.136(a). In no munication. tatutory period will apply and will, by statute, cause the a	THIS COMMUNICA event, however, may a repl will expire SIX (6) MONTH polication to become ABAN	ATION.  by be timely filed  IS from the mailing date of this of the second of the seco						
Status										
1)⊠ 2a)□ 3)□	Responsive to communication(s) file. This action is <b>FINAL</b> . Since this application is in condition closed in accordance with the pract	2b)⊠ This action is for allowance exce	ot for formal matter		e merits is					
		ille dildei Ex parte d	duayle, 1935 C.D.	11, 453 O.G. 213.						
	ion of Claims									
5)□ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-25 is/are pending in the application.</li> <li>4a) Of the above claim(s) 15-23 and 25 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-7,9,11-14 and 24 is/are rejected.</li> <li>7)  Claim(s) 8,10 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>									
Applicati	on Papers									
9) 🗌 10) 🔲	The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any objected the Replacement drawing sheet(s) including the oath or declaration is objected the specific process.	ection to the drawing(s) g the correction is requ	be held in abeyance uired if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 C						
Priority (	ınder 35 U.S.C. § 119									
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>										
2) Notic 3) Information Paper	t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO/SB/08)  r No(s)/Mail Date	PTO-948)	Paper No(s)/f	nmary (PTO-413) Mail Date rmal Patent Application						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3,4,5,11,13,24 rejected under 35 U.S.C. 102(b) as being anticipated by White-6,435,941.

White discloses a load cup mechanism comprising a pivot arm with a workpiece platform (706) with a peripheral load ring (outer periphery), a plurality of lift fingers (722) a plurality of guide fingers (724), and a support ring (702), wherein fluid is supplied through pins (408).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6,7,9,12,14 rejected under 35 U.S.C. 103(a) as being unpatentable over White, alone.

IN regard to claim 6, White does not disclose the support ring having spokes.

However, the guide fingers (724) provide a spoke structure and therefore to have a spoke structure on the support ring would be an obvious design expedient in providing

additional central support. In regard to claim 9, White discloses an o-ring (721) disposed between the support ring and load ring but not a plurality of springs. However, the o-ring provides dampening and therefore, it would have been obvious of one of ordinary skill in the art at time invention was made to provide a plurality of dampening members, such as springs, since both perform equally well and are within the level of ordinary skill. In regard to claim 12, White uses the fluid flow through pins (408) to determine presence of wafer and not a gravity sensor. However, any known device, such as a gravity sensor or fluid flow, would have been obvious to one of ordinary skill in the art at time invention was made since they would perform equally well and the choice of either would be within the level of ordinary skill. In regard to claim 14, it would have been obvious to one of ordinary skill in the art at time invention was made provide the fingers with a pivot mechanism in order to properly position fingers while loading or unloading wafer.

Claims 2 rejected under 35 U.S.C. 103(a) as being unpatentable over White in view of Hempel et al.-6,227,950.

White does not disclose guide posts spaced about periphery. However, Hempel teaches a wafer conveyor with a loading mechanism comprising a holder (22) with a plurality of guide posts (86) to properly align and guide wafer. Therefore, it would have been obvious of one of ordinary skill in the art at time invention was made to provide White with a plurality of guide posts, as taught by Hempel, in order to properly align wafer in holder.

## Allowable Subject Matter

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Claims 8 and 10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen P. Morgan whose telephone number is 571.272.4488. The examiner can normally be reached on Monday-Thursday, 7am-3:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571.272.4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EM July 31, 2007

> /Eileen P. Morgan/ Primary Examiner, AU 3723